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Appl. No. 10/748,734 Amdt. Dated November 16, 2006 Reply to Office Action of August 16, 2006 Attorney Docket No. 88519.0001 Customer No. 26021

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously presented) A transparent electrode made up of ZnO as its main material, wherein its surface is covered with a Mg-doped ZnO film, and

wherein the electrode made up of ZnO as its main material is formed on a semiconductor layer, and

wherein the semiconductor layer comprises a GaN system semiconductor layer.

- 2-3. (Canceled)
- 4. (Previously presented) A transparent electrode comprising:
- a ZnO layer; and
- an Mg-doped ZnO film formed on the ZnO layer,

wherein the ZnO layer is formed on a semiconductor layer, and

wherein the semiconductor layer comprises a GaN system semiconductor layer.

- 5. (Previously presented) A transparent electrode comprising:
- a ZnO layer; and

an Mg-doped ZnO film formed on the ZnO layer,

wherein the ZnO layer is formed on a semiconductor layer, and

wherein the semiconductor layer comprises an n-type GaN system semiconductor layer formed on a substrate, an emission layer formed on the n-type 15:56

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GaN system semiconductor layer, and a p-type GaN system semiconductor layer formed on the emission layer.

- 6. (Previously presented) The transparent electrode of Claim 4, wherein the Mg-doped ZnO film overlies an upper surface of the ZnO layer.
 - 7. (Canceled)
- 8. (Previously presented) The transparent electrode of Claim 4, wherein a first metal pattern is formed on the Mg-doped ZnO film.
- 9. (Previously presented) The transparent electrode of Claim 4, wherein a second metal pattern is formed on the semiconductor layer.
- 10. (Previously presented) The transparent electrode of Claim 4, wherein the Mg-doped ZnO film improves acid resistance of the transparent electrode.
- 11. (Previously presented) The transparent electrode of Claim 4, wherein the semiconductor layer is formed on a substrate.
 - 12. (Canceled)
 - 13. (Previously presented) A light emitting device comprising:
 - a semiconductor layer formed on a substrate;
 - a ZnO transparent electrode formed on the semiconductor layer; and

an Mg-doped ZnO film formed on the ZnO transparent electrode.

wherein the semiconductor layer comprises a GaN system semiconductor layer.

- 14. (Previously presented) A light emitting device comprising:
 - a semiconductor layer formed on a substrate;
 - a ZnO transparent electrode formed on the semiconductor layer; and

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an Mg-doped ZnO film formed on the ZnO transparent electrode,

wherein the semiconductor layer comprises an n-type GaN system semiconductor layer formed on the substrate, an emission layer formed on the n-type GaN system semiconductor layer, and a p-type GaN system semiconductor layer formed on the emission layer.

- 15. (Previously presented) The light emitting device of Claim 13, wherein the Mg-doped ZnO film overlies an upper surface of the ZnO transparent electrode formed on the semiconductor layer.
 - 16. (Canceled)
- 17. (Previously presented) The light emitting device of Claim 13, wherein a first metal pattern is formed on the Mg-doped ZnO film.
- 18. (Previously presented) The light emitting device of Claim 13, wherein a second metal pattern is formed on the semiconductor layer.
- 19. (Previously presented) The light emitting device of Claim 13, wherein the Mg-doped ZnO film improves acid resistance of the light emitting device.

20-25. (Canceled)